



YEARLY STATUS REPORT - 2022-2023

Part A

Data of the Institution

1.Name of the Institution

**VELALAR COLLEGE OF ENGINEERING
AND TECHNOLOGY**

- Name of the Head of the institution **Dr. M. JAYARAMAN**
- Designation **PRINCIPAL**
- Does the institution function from its own campus? **Yes**

- Phone No. of the Principal **04242244201**
- Alternate phone No. **04242244202**
- Mobile No. (Principal) **9750924402**
- Registered e-mail ID (Principal) **principal@velalarengg.ac.in**
- Address **Thindal, Erode**
- City/Town **Erode**
- State/UT **Tamil Nadu**
- Pin Code **638012**

2.Institutional status

- Autonomous Status (Provide the date of conferment of Autonomy) **27/05/2016**
- Type of Institution **Co-education**
- Location **Urban**

• Financial Status

Self-financing

- Name of the IQAC Co-ordinator/Director **Dr. R. KUMARAVELAN**
- Phone No. **04242244201**
- Mobile No: **9443563481**
- IQAC e-mail ID **iqacvcet@gmail.com**

3.Website address (Web link of the AQAR (Previous Academic Year)<https://velalarengg.ac.in/naac/aqar2022.php>**4.Was the Academic Calendar prepared for that year?****Yes**

- if yes, whether it is uploaded in the Institutional website Web link:

https://velalarengg.ac.in/naac/_calendar.php**5.Accreditation Details**

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.11	2014	10/12/2014	31/12/2021
Cycle 2	A+	3.33	2022	19/07/2022	18/07/2027

6.Date of Establishment of IQAC**18/11/2013****7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?**

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY	12B	UGC	20/06/2022	0
VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY	2F	UGC	30/01/2015	0

8. Provide details regarding the composition of the IQAC:

- Upload the latest notification regarding the composition of the IQAC by the HEI [View File](#)

9. No. of IQAC meetings held during the year 4

- Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website? **Yes**

- If No, please upload the minutes of the meeting(s) and Action Taken Report **No File Uploaded**

10. Did IQAC receive funding from any funding agency to support its activities during the year? **No**

- If yes, mention the amount

11. Significant contributions made by IQAC during the current year (maximum five bullets)

Five departments viz., Department of Biomedical Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering and Information Technology has been accredited by NBA under Tier - I (Washington Accord)

Promotion of learning through online courses through SWAYAM NPTEL and FOSSEE. Activities through Swayam NPTEL local chapter - 28 Gold medals, 194 silver medals, 27 course toppers and 571 Elite certifications with NPTEL Discipline star by our college Faculty Dr.S.Sadash, Professor/CSE

Introduction of Impres ERP solution software for Academic, Administrative, Transport related activities.

Faculty members has published 72 papers in Scopus/Web of Science/UGC Care Journals, 25 Patents, 4 Copyrights, presented 122 papers in National and International Conferences and authored 11 books

66 Value Added Courses has been conducted for the students for the academic year 2022 - 23

12.Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:

Plan of Action	Achievements/Outcomes
Introduction of new programmes - B.Tech. (Artificial Intelligence & Machine Learning) & M.E. Industrial Safety Engineering - From the academic year 2023-2024.	Approval got from AICTE with an intake of 60 for B.E.. Artificial Intelligence & Machine Learning for the Academic Year 2023-24
Encourage Faculty members and Students to participate in the International level events.	Good number of faculty members participated through online
Encourage Faculty members to apply for research grants	101 proposals worth Rs. 1,91,57,924 was submitted to various agencies for research grants
Ensuring 40% of students to be placed in core companies	621 students to get placed in companies like Hexaware Technologies, KAAR Technologies, Aspire Systems, Zifo R&D solutions, Vuram Technologies, Logbase, Vinsinfo, Cognizant, CTS, Zuci Systems, Renault Nissan technology, Tech Mahendra, Clarivate Analytics, Karur Vysya Bank, Relaince Retail Ltd, Delphi-Tvs, Mphasis,

	iMatiz Technologies, Lakshmi Electrical Control Systems Limited, Mitsuba India Pvt Ltd etc., (42% placements in core)
To establish Centre of Excellence in Networking and Software Development.	Purchase process of necessary equipment are in process and awaiting for Industry collaboration
To obtain atleast FOUR STAR rating by Institution's Innovation Council by Innovation Cell, Ministry of Education, Govt. of India.	Obtained THREE STAR rating for the year 2022-23 and actions were in place for the improvement
Improving Entrepreneurship and Innovation Eco system at the campus (To have at least ONE start-ups per dept. @ VCET)	As of now, there are ELEVEN start-ups by VCET Students.
Deputing faculty members to the nearby Industries to improve Consultancy activities. Powered by	Aroud 10 facutly members has been deputed to nearby Industries to improve Consultancy activities

13. Was the AQAR placed before the statutory body? Yes

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
Management, Governing Council, IQAC	26/05/2023

14. Was the institutional data submitted to AISHE ? Yes

- Year

Part A**Data of the Institution**

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2021-2022	26/12/2022				
15.Multidisciplinary / interdisciplinary					
<p>The college adopts a Multidisciplinary Education approach, which is unique in that it allows students to learn and explore distinct courses from various disciplines. A student must choose open elective courses from the electives provided by any BE/B.Tech program other than their own, starting from the fifth semester. Students are permitted to take up one-credit courses that are also interdisciplinary in nature. Faculty members are also encouraged to publish their interdisciplinary ideas in journals, present them at conferences, and file for patent publications. Value-Added Courses offered by other departments are based on students' interests. If the total credits earned are three or more, then one elective course may be exempted for the student. The knowledge gained will enable students to showcase</p>					

their ideas in various project presentations and participate in Smart India Hackathons. Students are also encouraged to undergo internships and industrial training, which are also multidisciplinary in nature. Various steps have been taken, including attending seminars and conferences related to NEP 2020, and identifying benchmarks from various institutions for multidisciplinary courses by closely following the norms and regulations of the affiliating university.

16.Academic bank of credits (ABC):

The Academic Bank of Credit, as proposed in NEP 2002, aims to enhance student freedom when enrolling in their courses. It serves as a reference checkpoint for faculty to verify the credit records earned by students. The institution has taken various initiatives, starting with a feasibility study to gain a better understanding of ABC regulations. This includes structuring credit details in accordance with specific courses, ensuring clarity in credit evaluation and verification, and identifying the types of courses covered by ABC, including those conducted online and offline. Additionally, it encompasses national schemes like NPTEL and SWAYAM. The institution is currently reviewing the challenges in implementing ABC and how to support students in pursuing courses of their choice, ultimately making them 'industry-ready' graduates. Although the institution is not yet registered in the ABC system, each department offering BE/BTech programs is revising the curriculum to align with international standards, which allows for flexibility in credit transfer arrangements. The institution already offers elective courses, enabling students to choose their preferred subjects. Furthermore, the institution is exploring possibilities for collaboration with foreign universities to offer joint programs, twinning arrangements, and credit transfer options. This move aims to provide students with access to high-quality education and maintain internationalization in the programs offered. As Velalar College of Engineering and Technology is autonomous, the curriculum is continuously updated to prepare students for employment in the industry and higher education institutions. Faculty members have the autonomy to create their own syllabi, subject to review by the appropriate statutory bodies. They develop specific strategies to deliver the curriculum and employ interactive pedagogical approaches to engage students in a learner-centric manner. Faculty members not only provide relevant online and offline resources but also create and deliver additional content to address gaps in student understanding, alongside regular classroom teaching. They are actively involved

in generating digital content, including text materials, demonstration videos, instructional guides, remedial sessions, and tutorial resources, all aimed at helping students achieve their best academic performance. In the classroom, faculty members effectively interact and communicate, which significantly contributes to student learning. The institution also has a student management system, i.e., an ERP, where all student details, including internal assessments, attendance, continuous internal evaluations, and examination-related information, are entered. This information is then synchronized with the student portal, ensuring seamless access to all student-related data. Consequently, when the institution adopts the ABC system, it will have all the necessary infrastructure in place to implement it.

17.Skill development:

The College is committed to shaping young minds by developing their Technical and Life Skills for professional growth. We achieve this by conducting intensive, goal-oriented classroom training that enhances employability prospects. Velalar College of Engineering and Technology has an English Literary Association dedicated to supporting the learning and enjoyment of English. It has evolved into a hub for year-round activities aimed at improving students' communication skills, particularly for those from rural backgrounds. The VCET Toastmasters' Club plays a significant role in supporting campus placements and offers instruction in public speaking and leadership skills through an internal network of clubs. The Toastmasters' International club has helped students from diverse backgrounds become more confident speakers, communicators, and leaders. These clubs educate students in self-improvement and organizational skills within a friendly environment, fostering confidence and language skills applicable in business, professional, and community life. The college also boasts an Entrepreneurship Development Cell that benefits students through various awareness programs such as seminars, workshops, industrial visits, and interactions with young entrepreneurs. These programs aim to inspire the student community towards entrepreneurial activities. The cell helps students acquire essential managerial skills to effectively run an enterprise and develop entrepreneurial skills to keep up with current market trends. In line with AICTE guidelines and to preserve ancestral values and knowledge, the institution has introduced mandatory courses on 'Heritage of Tamil,' 'Tamil and Technology' in the regional language, and 'Indian Constitution and Traditional Knowledge' for all undergraduate students. In addition to classroom lectures, students are provided with

standard textbooks on the Indian Constitution and the cultural heritage of India. The Fine Arts Club at VCET organizes regular competitions in the regional language, Tamil, on contemporary topics related to the environment, energy conservation, and cultural and ethnic values of India. Another mandatory course at VCET is 'Universal Human Values,' which equips students with essential life skills necessary for all Engineering and Technology students. It aims to identify values and skills and instill an understanding of the basic guidelines, content, and processes of value education. VCET includes a Mini-project in the curriculum for students in their sixth semester, providing an opportunity for them to explore and showcase their capabilities. Additionally, the college offers mandatory courses in Professional Communication, Aptitude and Logical Reasoning, Arithmetic, and Analytical Ability to develop students' skill sets. VCET also provides a Communication Skills Lab course to enhance their practical knowledge.

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

Cultural awareness and expressions are of major importance when it comes to developing competencies in today's youth. Velalar College of Engineering and Technology has undertaken significant initiatives to provide students with a strong sense of identity and an appreciation of various cultures. As part of this effort, VCET offers the Indian Constitution and Traditional Knowledge course as a mandatory component, providing students with fundamental knowledge about the Indian Constitution and traditional Indian knowledge. This course makes students more aware of Indian polity and governance, reminding them of their responsibilities and the importance of upholding constitutional rights. The college promotes integrity and unity among different cultures through the celebration of various cultural events under the Fine Arts Club. Additionally, Elocution and essay competitions, both in English and regional languages, are held periodically to discover and nurture the hidden talents of our students. The Traditional and Cultural Days are celebrated with a genuine sense of purpose and spirit.

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

Recognizing the significance of Accreditation, especially in relation to the Washington Accord, the college has introduced Outcome-Based Education (OBE) concepts into its curriculum, syllabi, and evaluation processes. Out of the eight undergraduate programs, namely B.E. in Bio-Medical Engineering, Computer

Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, and B.Tech. in Information Technology, OBE has been implemented across all stages of the Teaching-Learning Process. In accordance with the Graduate Attributes, Program Educational Objectives (PEOs), and Program Outcomes (POs) outlined in the National Board of Accreditation (NBA) documents, markers have been developed and shared with stakeholders. The PEOs are designed to consider factors such as preparation, core competence, multidisciplinary knowledge, a professional environment, and the learning environment, all of which align with the institute's Vision and Mission as well as the Vision and Mission of individual departments. POs and Program Specific Outcomes (PSOs) have been mapped to PEOs, and course outcomes have been defined for all courses, specifying the correlation strength with various POs. At VCET, PEOs and COs are communicated to students through various methods: Syllabi with POs and COs are available on the college website. Curriculum and Syllabus books with POs, PEOs, and COs are provided in the library for reference. POs and PEOs are displayed prominently in the department, including classrooms and laboratories. COs are included in course delivery plans, lab manuals, and course files for the respective courses. Faculty members are provided with guidelines for framing COs using Bloom's Taxonomy through orientation programs organized by the Internal Quality Assurance Cell (IQAC). In the evaluation process, which includes Continuous Assessment and Semester Examinations, students' performance in each course is linked to the POs, and subsequently, the PEOs are evaluated. A 360° feedback mechanism is employed to continually monitor and achieve Outcome-Based Education. Various committees at both the college and department levels continuously assess the attainment of these outcomes every semester, maintaining documentary evidence to facilitate peer-level evaluation.

20.Distance education/online education:

There has been a noticeable shift in teaching and learning methods worldwide, moving away from traditional classroom teaching to a blend of classroom and online teaching and learning. This change is evident in the global popularity of online education, including MOOCs. India is also adapting to this new paradigm, and we actively encourage our students and faculty to register and take examinations through platforms like SWAYAM-NPTEL. Within our autonomous system, we have obtained the necessary approvals to introduce the Credit Transfer Scheme for our students. As a result, credits earned from SWAYAM-NPTEL are

considered as replacements for elective courses. The list of approved courses is reviewed by the chairperson before the semester begins, ensuring that students register for courses that align with their curriculum and are not redundant. Online courses have also allowed students to fulfill their credit requirements by the 7th and 8th semesters. This flexibility enables them to pursue full-time internships in relevant industries, offering an excellent opportunity to acquire industry-specific skills and boost their career prospects. VCET leverages various Information Communication Technology (ICT) tools to support effective pedagogy. All faculty members make efficient use of ICT tools to enhance the teaching and learning process. Our classrooms are equipped with LCD projection systems, computers, and internet connectivity, which enhance lecture delivery, communication, and in-class assessments. In addition, department labs feature desktop computers, printers, and essential resources, all supported by a 500 Mbps Wi-Fi network throughout the campus. Well-equipped smart classrooms and interactive boards assist faculty and students in delivering effective presentations and videos. Furthermore, laboratories, classrooms, seminar halls, conference halls, and hostels are equipped with Wi-Fi, providing students with access to e-resources and opportunities to update their skills. Our automated digital library, complete with personal computers and an Online Public Access Catalog (OPAC) system, makes it easy for students and faculty to access resources. Language laboratories are equipped with individual headsets and webcams, facilitating online classes, audio and video recording, and access to e-learning resources on platforms like YouTube and social media. Study materials, assignments, activities, and assessments are shared through Google Classrooms and Google Forms. The institution has access to e-resources, including IEEE Explore, DELNET, e-Shodh Sindhu National Digital Library of India, and NPTEL. In our new Design Thinking-Based Curriculum framework, we encourage blended learning among students. The college also has an in-house content development facility that our faculty members use to create video lectures posted on YouTube for the benefit of students.

Extended Profile

1.Programme

1.1

15

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 **3212**

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2 **791**

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3 **3185**

Number of students who appeared for the examinations conducted by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1 **370**

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2 **220**

Number of full-time teachers during the year:

Extended Profile

1.Programme

1.1 15

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 3212

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2 791

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3 3185

Number of students who appeared for the examinations conducted by the institution during the year:

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Institutional Data in Prescribed Format	View File

3.Academic

3.1 370

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2	220
Number of full-time teachers during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File
3.3	220
Number of sanctioned posts for the year:	
4.Institution	
4.1	672
Number of seats earmarked for reserved categories as per GOI/State Government during the year:	
4.2	71
Total number of Classrooms and Seminar halls	
4.3	1257
Total number of computers on campus for academic purposes	
4.4	421.52
Total expenditure, excluding salary, during the year (INR in Lakhs):	
Part B	
CURRICULAR ASPECTS	
1.1 - Curriculum Design and Development	
1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.	
<p>Curriculum Design and Development:</p> <p>The curriculum of the institute is developed with input from all stakeholders, including parents, academic and industry professionals, students, alumni aligned with the mission of the institution. The design process incorporates into account the points acquired after an extensive analysis of the potential for</p>	

improvement, industry needs, optimal employability, innovation, research, and the progression of entrepreneurial skills amongst the students. Since 2016, the Choice Based Credit System has been tailored to include an outcome-based curriculum that comprises the requisite curricular components for addressing the demands of contemporary society. The Programme Educational Objectives (PEOs), Programme Outcomes (POs) and Program Specific Outcomes (PSOs) are framed with respect to Graduate Attributes (GA) recommended by NBA and other professional organizations. A sound curriculum is handed over to the students in such a way that all the requirements of governing authorities like AICTE, UGC, NBA, Anna University and restrictions for institutions' autonomy are well taken care of.

National / Global Relevance:

Through industry-integrated courses, MoUs with prominent corporates, NPTEL courses, internships and value-added courses, lifelong learning includes NPTEL, SWAYAM courses, and ICT tools for teaching, learning, and assessment. The curriculum's EEC component intends to strengthen their employability on local, national, international level.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	https://velalarengg.ac.in/governing/insight_cd.php

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

13

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	View File

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

240

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	View File
Any additional information	View File

1.2 - Academic Flexibility**1.2.1 - Number of new courses introduced across all programmes offered during the year**

125

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

14

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

In order to foster effective individuals, our institution continues to enhance a values-based education system. In conjunction with rendering a major commitment to students' futures and the welfare of humankind, education adheres to promote interdisciplinary thinking and teamwork.

Professional Ethics:

All professional norms of behaviour are endorsed by our organization in the curriculum. To instill managerial and ethical practises in engineering, courses like "Professional Ethics" are imparted to uphold morality in the workplace, providing interpersonal relationships and values a new perspectives. .

Human Values:

Awareness of physical health, mental well-being, personal virtues, societal virtues, morals, and human values are being imparted . Promoting these aspects of education can contribute to the holistic development of students and their understanding of important life principles.

Gender:

Gender equity in recruitment and allocation of responsibilities is also a positive step towards creating a more inclusive and equitable educational environment. This fosters a sense of equality and fairness among students and promote gender diversity in various aspects of campus life.

Environment and Sustainability:

The inclusion of topics ecosystem, biodiversity, pollution, environmental protection laws, natural resources, population, and human health in the course reflects a commitment to environmental awareness and sustainability.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	View File

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

66

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	View File

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

4738

File Description	Documents
List of students enrolled	View File
Any additional information	View File

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

1472

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni	A. All 4 of the above
File Description	Documents
Provide the URL for stakeholders' feedback report	https://velalarengg.ac.in/feedback/curriculum_feedback.php
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File
1.4.2 - The feedback system of the Institution comprises the following	A. Feedback collected, analysed and action taken made available on the website
File Description	Documents
Provide URL for stakeholders' feedback report	https://velalarengg.ac.in/feedback/curriculum_feedback.php
Any additional information	View File
TEACHING-LEARNING AND EVALUATION	
2.1 - Student Enrollment and Profile	
2.1.1 - Enrolment of Students	
2.1.1.1 - Number of students admitted (year-wise) during the year	
889	
File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File
2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)	

547

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

LEARNING LEVEL ASSESSMENT:

The college provides an induction program for first-year students to know about the college environment, facilities, academic and administrative regulations, and procedures. The institution periodically assesses the student performance through Continuous Assessment Tests, assignments, end-semester examinations and constant mentoring of students by their faculty mentors. Based on this, the advanced learners and the slow learners are identified.

PROGRAMS FOR ADVANCED LEARNERS

- VCET provides a Fastrack system for the advanced learners to complete their curriculum in advance and allow them for an industrial internship in their final semester.
- Students are encouraged to take up SWAYAM - NPTEL courses. The credits earned in these courses are transferred to the final grade statement.
- Technically strong students are trained and motivated to participate in All India Level Competitions like Smart India Hackathon, etc.
- Advanced level learners are awarded proficiency winners as per their skills and knowledge.

PROGRAMS FOR SLOW LEARNERS

- Student mentoring system is in practice to resolve the difficulties slow learners face both academically and personally.
- Remedial classes and Remedial Tests are scheduled and conducted periodically to improve the academic performance of the slow learners.

- English refresher course is organized to enhance students' English proficiency.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://velalarengg.ac.in/ftasl.php

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
31/05/2023	3212	220

File Description	Documents
Upload any additional information	View File

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

Velalar College of Engineering and Technology has effectively applied student-centric learning to gain Outcome-Based Education (OBE) through experimental, participative, and problem-solving methodologies.

Experimental Learning

- Value Added Courses of one credit are organized to upgrade the knowledge of students.
- Project work, mini-projects, project exhibitions are conducted to help students to bring their ideas into a working prototype.
- Fast track students are allowed to attend an internship program in their final semester in collaboration with Industry-Institute Partnership Cell to bridge the knowledge level of the students from academic to real-time industrial requirements.
- Students are motivated to attend inplant training.

Participative Learning

- Students are encouraged to participate in co-curricular and extracurricular activities conducted by intra and inter-college events.
- Students utilize modern digital learning resources like NDLI and spoken tutorial to enhance their learning experience.
- Institute organizes various clubs like fine arts, Rotaract, National Service Scheme (NSS), National Cadet Corps (NCC), Women empowerment club, etc., to apply moral and ethical principles in the society.

Problem-solving methodologies

- Problem-solving ability of the students is inherited by giving high order knowledge level assignments and activity-based learning.
- Problem-solving ideas are induced by innovative teaching practices like mind mapping, brainstorming, project-based learning, flipped classroom and case approach etc.

File Description	Documents
Upload any additional information	View File
Link for additional Information	https://velalarengg.ac.in/ft_tlp.php

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

The faculty members in the institution are using Information and Communication Technology (ICT) tools very effectively to enhance the teaching learning process among the students by creating interest in live concepts.

Well-equipped smart classroom and interactive boards helps the faculty and students to present PPTs and Videos effectively. Smart classroom facilitates the students to actively participate in the lecture sessions.

Laboratories, classrooms, Seminar halls, Conference Rooms, Auditoriums, and Hostels are enabled with WiFi internet facility with a bandwidth of 500Mbps which gives space for students to learn from e-resources and update their skills. Utilisation of online Software resources improve the student Software skills.

Automated Digital Library with personal computers and Online Public Access Catalog system makes easy access for students and faculty members.

Computer system laboratories with individual headsets and webcams help handle online classes and record quality audio and video to update as an e-learning resource in Youtube channels and college websites. Study materials, assignments, activities, and assessments are conducted through classrooms, Google forms (online quiz, polls, and surveys).

The Institution has access to e-resources namely IEEE explore, DELNET, e-ShodhSindhu, National Digital Library of India, ShodhGanga, Swayam -NPTEL.

Faculties have their BlogSpot, Google sites, and YouTube channel for their course, and students can access them and interact with other learners outside the institution. Management and Faculties utilise ERP Software to store and manage the data regarding daily attendance, lessonplan, markentry, payroll etc.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://velalarengg.ac.in/dept_econtent/bme_econtents.php
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

172

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

An Academic Calendar is prepared every semester prior to the commencement of classes by a committee comprising of the Principal and the COE and circulated to all the departments. The academic calendar is prepared considering the regulations of the corresponding program regarding the number of working days, the number of assessments to be conducted for both theory and laboratory courses. The calendar specifies the commencement date for each programme. Usually the entire semester period is divided into three parts such that at the end of each part (approximately 30-40 days) assessment tests are conducted. The calendar specifies the periods for the three Continuous Assessment Tests, the last instructional day and the slot for conducting the end semester practical and theory examinations. The reopening date for the next semester is also mentioned.

Teaching plans are prepared by the individual faculty before starting of the classes and get approved by the HOD. It is ensured in the plan that The complete syllabus of a course is covered in that semester. HOD ensures that the faculty adheres to the academic calendar and teaching plan by reviewing the Attendance and Assessment Record of a course at the end of every month.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

220

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	View File

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

66

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	View File

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

1724

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

18

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	View File

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

110

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	View File

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

The examination process in the VCET autonomous system is an automated one and it is integrated with a software application called Examination Management System. EMS software is integrated with various modules for generating exam hall allotment, students seating arrangement, invigilation duty list, absentees list and dummy number generation. The Continuous Assessment (CA) exam for each theory course carries 40 marks. For theory courses, 3 written tests are conducted for the duration of 1 hour 30 minutes and each carrying 50 marks. The marks obtained from the CA exams are added and averaged to a scale of 30 marks. Three assignments are evaluated and averaged to a scale of 5. The course faculty conducts an additional assessment evaluated for 5 marks which may be a quiz, an activity etc. All of them are summed for a total of 40 marks. Semester examination for each theory exam is conducted for 100 marks and it is converted to a scale of 60 which is considered as the external mark. The internal mark out of 40 and the external mark out of 60 are summed up for 100 marks. After approval, the semester exam results are posted on the college website which enable the students to know their results online. The Grade Statements are also generated by the Examination Management System software in a predetermined format.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://velalarengg.ac.in/pdf/coe/Downloads/VCET%20Examination%20Manual.pdf

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

In compliance with the objectives of Outcome Based Education (OBE), the Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs) are framed by the department offering the program after consultation with faculty members and the stakeholders.

Program specific outcomes (PSOs) are the specific skill requirements and accomplishments to be fulfilled by the students at micro level at the end of program. The programmeco-ordinators prepare the PSOs in consultation with course coordinators.

Program Outcomes (POs) are broad statements to describe the professional accomplishments by the program and these are to be attained by the students at the time of their program completion. POs incorporate many areas of inter-related knowledge and skills that are to be acquired by the students during their graduation.

Course Outcomes (COs) are direct statements to describe the essential disciplinary knowledge, abilities that students should possess during the completion of a course. The Course Outcomes are prepared by the course coordinator in consultation with concerned faculty members teaching the same course. Outcomes are communicated to the students, faculty members, alumni, parents and employers by publishing in College website, displaying in Department display boards, HoD cabin, Class rooms, Laboratories.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	View File
Link for additional Information	https://velalarengg.ac.in/academic_curriculum.php

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

Each subject has Course outcomes (COs). These COs can be mapped with POs & PSOs based on Intended Learning Outcomes and Performance Indicators given by AICTE Examination Reforms.

Each courses COs can be assessed using Direct assessment tools that reflect the knowledge and skills of the students based on their performance in End semester Examination, Continuous Assessment Test, Assignments, Tutorials, Concept Test, Rubrics based on performance etc. This assessment is taken for the attainment of individual Course Outcomes (COs)

For R2018, Overall CO attainment is calculated as

- Overall attainment of COs (Theory) = $0.4 \times \text{CA attainment} + 0.6 \times \text{SE attainment}$
- Overall attainment of COs (Practical & Project) = $0.6 \times \text{CA attainment} + 0.4 \times \text{SE attainment}$

Once the overall attainment of each COs is calculated, the PO and PSO attainment is obtained. The obtained values are compared with the set attainment target fixed for each PO and PSO. If the target is achieved, the same process is continued for further batches. If the target is not achieved, continuous improvement activities are taken for each PO and PSO.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://velalarengg.ac.in/governing/insight_co&po.php

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

783

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	https://velalarengg.ac.in/pdf/coe/VCET%20COE%20Annual%20Report%202022%20-%202023.pdf

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

https://velalarengg.ac.in/sf/c2/aqar2223/2.7_SSS_2022-2023.pdf

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

In order to foster research interest and breakthroughs in the cutting-edge fields of science, engineering, and technology, the institution has established a strong research policy. The goal of interdisciplinary research is to advance experiential learning and strengthen the academic foundation by motivating students and faculty to engage in it. This then results in the college's vision and goal being realized. The research efforts support the academic program by expanding faculty members' knowledge. The college website now features a copy of the clearly stated research policy.

Research proposals must pass through a multi-tiered review process, during which they are examined by committees for research and development and research ethics. Eminent specialists from the R&D council's advisory board may then assess the results. The R&D committee then reviews the proposal before sending it to the funding organization.

The institute has well-established labs that enable the faculties to conduct research and development. There are five research institutes that provide doctoral programs in various

academic fields. To aid in the research, laboratories are frequently renovated. The use of licensed software in the lab aids in advancing the research. Agreements have been made to promote the culture of transdisciplinary research with industries and hospitals.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://velalarengg.ac.in/research_Policy.php
Any additional information	View File

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

0.5

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	View File
Any additional information	View File

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

28

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	View File

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

0.801

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	View File

3.2.2 - Number of teachers having research projects during the year

7

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	https://velalarengg.ac.in/research_projects.php
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

29

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

5

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://www.tnstc.in/home.html
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

Entrepreneurship Development Cell (EDC) The EDC of the College conducts awareness programmes and Interaction with industrialists which aimed at making the student community more enthusiastic towards entrepreneurial activity. Also, our students are encouraged by VCET's successful alumni entrepreneurs towards innovative business ideas.

Recognized Research Center-The department of ECE, EEE and Physics are recognized research centers of Anna University. A considerable number of research scholars have enrolled in PhD programs, and the number grows every year.

Encouraging students to participate in Club Activities - The VCET Green club is active on campus. The institution has formed several committees to inculcate environmental education in students through the schemes such as NSS, YRC, and RRC.

Institution Innovation Council - IIC was established to systematically cultivate an innovation culture among students

from all institute departments. IIC activities included 240 students who participated in 18 total programs in order to develop their skills and overcome obstacles while creating innovative models. At the Smart India Hackathon 2022 Grand Finale, a team from VCET won a prize of one lakh rupees. We have the start-ups with ATMEGA SOFTWARE TECHNOLOGIES, KARMA DEVELOPERS, MTECH KARGLS, ATMYTECH SOFTWARE SOLUTIONS, NEDIVEIL TECHNOLOGIES, INFOMIN SOLUTIONS, CUBE CORPSOL.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://velalarengg.ac.in/research_centre_s.php

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

51

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	View File

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

A. All of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	View File

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

9

File Description	Documents
URL to the research page on HEI website	https://velalarengg.ac.in/research_obj.php
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

46

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	View File

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

32

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://velalarengg.ac.in/sf/c3/22-23/3.4/3.4.4_uploadpg.pdf

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

685

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

21

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

0.58

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	View File

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

0

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	No File Uploaded
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

EXTENSION ACTIVITIES AND ITS IMPACT

VCET has always put in tremendous effort to inculcate social responsibility in students along with academics. In accord with that policy of the institution the following clubs are framed to enable the students to be exposed to real time hands-on learning experiences. All the students are expected to register themselves with club of their choice and be a part of experiential learning by serving the society.

NationalServiceScheme:

NSS volunteers gathered Special Camp, Aadhar camp, cleaning camp, Food awareness walkathon. NSS unit of VCET is selected for the Best NSS Unit award and Best NSS Volunteer Award by Government - Anna University -University Level NSS Award.

NationalCadetCorps:

The NCC organizes camps for Plastic awareness, Tree plantation, and awareness cycle rally. Events like Har ghar Tiranga, Nasha mukht bharat abhyan, Puneet sagar abhyan, Nukkad nataks were conducted.

Rotaractclub:

The Rotaract club joins together the community programmes for planting saplings, providing food, plastic awareness cycle rally, Marathon, Book donations, Seminar on importance of Nutrition, and District Trainers workshop etc.

YouthRedCross,RedRibbonClub&GreenClub:

YRC, RRC and Green club organizes various programmes in sports, Awareness for AIDS, Yoga, Drug, Soil conservation etc. and train students on the importance of the environment.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://velalarengg.ac.in/club/ncc.php

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

90

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	View File

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

85

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

1444

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

247

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

14

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

Classrooms, Drawing Halls and Seminar Halls

The institution has totally 66 classrooms with LCD projectors connected with Wi-Fi. Four Drawing Halls are available based on the requirements of the curriculum.

Institution has two Seminar halls and three Conference halls for conducting Department/ Institute level programs such as association activities and programs related to the professional bodies of the department.

Computing facilities

Each Department has well-equipped laboratories over and above the mandatory requirements AICTE. There are totally 54 laboratories in the campus. Totally 1297 computer systems are connected to internet through a leased line with dedicated high-speed internet connectivity (bandwidth) of 500 Mbps.

Central Library

The Central library was established in the year 2001. In 2008 when the library was shifted to its main building. The library spreads over an area of 1197.86 Sq.m. All Books are classified according to D.D.C Scheme. Seating capacity of the library is 300. It Provides Online Public Access Catalogue (OPAC) service to its users.

Digital Library

It has 32 terminals with head phones and mikes are available in the Digital Library section with Internet access facility to facilitate access to the DELNET, NPTEL, e-books and IEEE ASPP online resources.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://velalarengg.ac.in/campus/infra_physical.php

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

Cultural Activities

Our institution is committed to the holistic development of students with the support of Fine Arts Club activities to keep the creative spark alive. To exhibit students' unique talents, Fine Arts Club, Viscom Club is available in the Institution.

Yoga and Meditation Hall

In L Block the Institution has a separate Yoga Centre with an area of 230.97 Sq.m. Every year as a part of the curriculum Value Education Classes were conducted for the first year students for about 18 hours.

Indoor Facilities & Outdoor Facilities

The Department of Physical Education facilitates the following Games as indoor games for the benefit of students, such as Table tennis, Chess and Carrom. The total area of the playground is 3.75 acres which includes athletic fields and track, Basket Ball, Cricket, Football, Volley ball, Badminton, Ball Badminton, Kabaddi, Kho-Kho.

Gym & Other Facilities

Gym is another central facility which is functioning in the college premise. The built up area of the institution is 56572 sq.m with a sprawling over 25.61 acres of land. The college has

1 Gents Hostel, 1 Ladies Hostels, 2 Food Courts, Students' Amenity Centre. Vellalar Trust hospital with 1 ambulance is used for emergency purpose.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	https://velalarengg.ac.in/campus/campus_cultural.php

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

71

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

210.09

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	View File

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

Library is automated using Integrated Library Management System (ILMS)

The central library is fully computerized, well equipped with modern facilities, resources in the form of books, printed and electronic journals, CD-ROMs, on-line databases, project reports, etc. Open Access System is being followed to access the books and journals.

Name of the ILMS software: Noolagam - The Smart Librarian

Nature of Automation: Full Version: 2.1.09 Year of automation: 2001

Currently, it has been changed to CAMPES iLIB(Computerized Academic Management Processing and Expert System Information Library) Integrated Library Management System (from 2003).

Name of the ILMS software: CAMPES iLIB

Nature of Automation: Full

Version: 7.0.2

FEATURES OF SOFTWARE:

1. Member Management (Students and Staff)
2. Circulation
3. Book Stock master
4. Non-Book Materials entries
5. Back Volume Entries
6. Periodical/Magazine and Journals maintenance
7. Subscription entries
8. Failed Magazine Observation
9. Reservation Management
10. Overdue Charge management
11. Reports production
12. Image clipping management

13. User rights management to apply security in library activityby librarian

14. Stock Verification Process

15. Failed Hits Observation from OPAC in book purchase

16. Book purchase bill Management

17. Final Year Due Clearance

18. Data designed as data ware house manner. i.e no data are deleted.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://velalarengg.ac.in/lib_intro.php

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

21.35

File Description	Documents
Audited statements of accounts	View File
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

25.52

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	View File

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

No. of Systems and their Configuration

Institution has a total of 1297 computers with the following configuration: i3 / i5/ i7 Processor , 4GB / 8GB RAM, 500 GB / 1 TB HardDisk, 3.41 GHz Processor clock speed and above CPU Speed.

Internet Connection

Internet connection is distributed across the college through Wi-Fi networks. The institute regularly upgrades the internet connection every year. The campus is enabled with 24x7 Wi-Fi, 500 Mbps bandwidth connectivity. The Wi-Fi system has been functioning with 500 Mbps (1:1) leased line connectivity provided by Wireline Solution Private Limited.

Networking Peripherals

VCET uses fibre optical networking cable with a speed of 100 / 1000 MBPS media converters and layer 2 switches like CISCO SG 500 / 350 / 300.

LCDProjectors

Upgrading of IT is seen in teaching learning process as OHPs in the institute have been intermittently replaced by LCD projector with smart boards in all class rooms.

Firewall/Security

VCET uses firewall service from MIKROTIK CLOUD CONTROL ROUTER and have lifetime validity.

Surveillance Facilities

There is a 24/7 CCTV Surveillance security available in the institution. Through this security system, the faculty members and students have been secured from unwanted grievances.

All the faculty members, students, technical staff and other workers of our institution are responsible for exercising appropriate use of information and network resources in accordance with the policies and standards.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://velalarengg.ac.in/campus_internet.php

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
3212	1257

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students

A. 750 Mbps

on campus	
File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	View File
4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing	A. All four of the above
File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://velalarengg.ac.in/dept_econtent/bme_econtents.php
List of facilities for e-content development (Data Template)	View File
4.4 - Maintenance of Campus Infrastructure	
4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)	
211.43	
File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File
4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.	
Library Maintenance:	
<ul style="list-style-type: none"> Staff and students visit the library to use the books; the visitor's information is kept on file in the E-Gate 	

register on a daily basis.

- A book transactions register is kept in the library for the issue and return of books.

Laboratory Maintenance :

- Stock register is kept separately for consumables and non-consumables register.

Classroom Maintenance :

- For electrical faults in fan/tube lights, the student representative will notify the Class advisor.

Maintenance of Audio Visual Equipments:

- The LCD projectors are tested for proper operation and brightness.
- The speaker line and speakers are verified for correct terminal connections and earth connections.

TRANSPORT SECTION

College vehicle maintenance :

- The engine oil and filters are changed every 10,000 kilometres.
- Insurance, road tax, and fitness certificate are all renewed.

During FC Work:

- The steering linkages and power steering oil have been replaced
- The emission certificate is renewed every six months.

Maintenance of CCTV surveillance camera:

- The major equipment, such as NVRs and cameras, will be maintained and monitored on a daily basis.

Maintenance of Networking & Intranet:

- Every day, system administrators will do regular maintenance using the Mikrotik access point monitoring capability; additionally, CISCO switches are maintained by

technical in-charges.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://velalarengg.ac.in/sf/c4/22-23/4.4.2-Maintenance%20Photos%20of%20Physical%20Facilities.pdf

STUDENT SUPPORT AND PROGRESSION**5.1 - Student Support****5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year****1773**

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year**1676**

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

A. All of the above

File Description	Documents
Link to Institutional website	https://velalarengg.ac.in/plmt_capacitydevelopment.php
Details of capability development and schemes	View File
Any additional information	View File

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

292

File Description	Documents
Any additional information	View File
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression**5.2.1 - Number of outgoing students who got placement during the year****547**

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education**20**

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	View File

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year**5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year****14**

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

5.3 - Student Participation and Activities**5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year****9**

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

Student Council: Our technical institution has formed the student committees to involve the students in various activities viz. department association, student clubs, NCC, NSS, RRC, Green club etc. In every department, students acted as secretary, joint secretary, treasurer and executive members in the department association. The student secretary gives every year plan during the association inaugural address which includes arrangement of experts, intra-department events, industrial visits etc. The alumni who become entrepreneurs also visit the college to present the new findings in their respective industry where they gained experiences.

Academic committee: In every department, student's representatives present their grievances on behalf of all the students regarding the completion of syllabus before each test during class committee meetings, submitted to the principal through the Heads/Dean. Based on the weightage, the principal has redressed the students. The feedback about the teaching/learning process submitted by every student confidentially and evaluated separately and action taken by the competent authority, if not performed well.

Administrative committee: Student's representatives also involved in anti- ragging and sexual harassment activities and have the mechanism viz. suggestion box, website, and contact mobile number etc. to report confidentially to the higher authorities.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://velalarengg.ac.in/club/ncc.php

5.3.3 - Number of sports and cultural events / competitions organised by the institution

10

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	View File

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

Velalar College of Engineering and Technology, one of the best-known self-financing, co- educational institutions aims to achieve excellence in engineering education, with a strong emphasis on the uplift of rural students who have only limited avenues for higher education. The college was established by Vellalar Educational Trust in the year 2001, with all in-built infrastructural facilities. It offers excellent quality education in such a manner as to empower the students to face any challenging environment after they graduate from the portals of the college. The institution offers seven undergraduate B.E programmes and one B.Tech programme, Post graduate in MBA, MCA and M.E programmes. The alumni were employed in state and central government, Public Sector Units, private limited companies in India and foreign countries.

Velalar College of Engineering and Technology Alumni Association has been registered under the Tamil Nadu Societies Registration Act, 1975 (Tamil Nadu Act 27 of 1975) on November 7, 2022.

The association chapters were inaugurated exclusively to connect our alumni in metropolitan cities viz., Chennai, Bangalore and Coimbatore. Our alumnus acted as a resource person in various department activities to enrich their knowledge. Alumni provide the chances to their services to get training and placement. The alumni's induction programmes were organized every year in our institution. The recent and old alumni participated. Our alumni contributed the funds to their association chapter.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://velalarengg.ac.in/index.php

5.4.2 - Alumni's financial contribution during the year

C. 5 Lakhs - 10 Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

Governing Council (GC)

Governance of VCET being a self-financing autonomous institution, it follows Autonomous guidelines as per the UGC from the Academic Year 2016-17 onwards. The GC is fully democratic, decentralized and transparent. It promotes participation out of all stakeholders for smooth operation of the Institution. The GC through the Principal ensures that all decisions on the matters including admission, budget, infrastructure, Teaching-Learning Process and placements are in line with Institute's Vision, Mission and Quality Policy properly reach the stakeholders and ensure proper implementation of the same. Effective leadership fosters decision-making transparency and accountability at all levels. This builds stakeholder trust and institutional integrity.

Head of the Institution

The Principal oversees academic and administrative activities, Faculty, department heads, IQAC, and the Board of Studies collaborate to make decisions and improve efficiency. Senior academics attend capability-building programmes to boost administration. Several committees track the institute's progress towards its goal and mission while following quality policy. This encourages faculty collaboration and ensures the

programming supports the college's entrepreneurial objective.

Internal Quality Assurance Cell

Through IQAC, the GC monitors quality activities. Audits, awareness workshops, student feedback, student surveys, and faculty and staff training help the IQAC ensure the quality of all institute activities.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://velalarengg.ac.in/about.php

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

Decentralisation:

Good governance helps institutions grow and thrive, according to VCET. This effort aims to decentralise government and assign tasks to senior officials and department heads. This goal fosters accessibility and participatory management. Management gave administrative and academic power to the Principal and academic heads as part of governance. Decentralisation provides decision-making and funding. Decentralisation affects engineering education planning, policy, and management.

Participative Management:

The Governing Council (GC) improves institution performance. GC chairman and members actively promote institute expansion. After consulting stakeholders, all institutional decisions and policies are in the institution's best interest. Top-down leadership from the GC motivated stakeholders and grew the institute. The college website posts governing body, committee, and academic activity minutes. Faculty receive information through meetings and circulars. All relevant parties need clear roles, responsibilities, and authority for academic success. The college organisation chart shows administrator levels, authority, and structure.

New programme

On the advice of the stakeholders and the evolution of recent technology, a new programme namely "Artificial Intelligence and Data Science" was started in the Academic year 2022-2023. The programme is started with the Intake of 60. The laboratory and infrastructure is established in the campus. The laboratory and supporting infrastructure have been set up on campus.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	View File
Paste link for additional Information	https://www.velalarengg.ac.in/abt_non%20statutory%20bodies.php

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

Vision and Direction: The strategic plan provides a clear vision for the institution's future. Effective leadership articulates this vision in a way that inspires and motivates all stakeholders, including employees, students, and partners. It serves as a guiding light, aligning efforts toward a common goal.

Goal Setting: The strategic plan outlines specific goals and objectives that need to be achieved. Effective leaders ensure that these goals are well-defined, measurable, and achievable. This clarity helps everyone understand what is expected and how they can contribute to the plan's success.

Implementation of Centre of Excellence

The mechanical department established a Centre of Excellence for Product Design in partnership with M/s. MACBRO Technology India Private Limited, Erode, to enhance students' employability and global placement beyond academic knowledge. To develop industry-expected employability skills, the MOU was signed to offer VCET Students Internship at MACBRO R&D Centre, Placement Assistance in India and Japan, equip VCET students with industry-specific tools and practises for industry readiness upon programme completion, provide VCET Trainers with product development

training, get in-depth global industry standard training in selected subjects at reasonable cost and boost VCET students' confidence to confront industry issues in real time.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://www.velalarengg.ac.in/abt_sbc.php
Upload any additional information	View File

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

Organizational Chart

VCET has a well-structured organizational structure which clearly shows the people responsible for various tasks and the levels of supervision. The Governing Council of the college meets once in a year.

Statutory and Non-Statutory Committees

In addition to the governing body there are several statutory and other committees are in place to administer various activities related to academic, administrative and extension. Thus the governance of the college is more participatory and led by the governing body. This ensures holistic growth and development of the student stakeholders. Societal impact and responsibility are given prime importance by the Institute so as to contribute and promote sustainable socio-economic development through globally competitiveness.

Administrative setup

Functions

Statutory Committees

Policy making, Recruitments, Budgeting, Financial matters, Quality Improvement

Non-Statutory Committees

Planning Evaluation, Academic, Placement, Student centric activities, Co-curricular and extra-curricular activities

Department Advisory Board

- Suggest improvement in academic plans and recommend standard practices/systems for attainment of PEOs &
- Encourage for industry-institute interactions to bridge up curriculum/industry gap and suggest quality improvement initiatives to enhance employability.
- To propose necessary action plan for skill development of students
- To identify and suggest thrust areas to conduct various activities to meet PEOs.

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.velalarengg.ac.in/naac/vcetorg.php
Upload any additional information	View File
Paste link for additional Information	https://www.velalarengg.ac.in/naac/hrpolicybook.php

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

Welfare Schemes

The college in general takes care of its employees well. There are several welfare measures in place for the teaching and non-teaching staff. The college encourages a worthwhile welfare schemes to all the teaching and non-teaching staff to boost the morale of the employees and thus make them motivated to work efficiently. Some of the welfare measures the institute provide to its employees include Promotion and increments based on self-appraisal, cash awards and certificate of appreciation for academic excellence, incentives for publication of research articles, supporting faculty members to organize guest lectures, supporting faculty members to conduct/organize conference/FDPs. Institute sponsors the faculty members to join as a member in professional society. All the employees are provided free transport and hostel facility/ fee concession for their daily commuting to the college.

Health Insurance

All the employees are covered under medical insurance facility up to a sum of Rs. 1 lakh towards accidental and health insurance per annum. The institution also provides the facility of Employee Provident Fund for its employees. The colleges also provides various leave benefits to all the employees such as casual Leave, Compensation Leave , special leave, medical leave, and maternity leave to all employees.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://velalarengg.ac.in/sf/c6/22-23/inc entive policy.pdf

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

102

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

15

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

164

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Financial planning and management is the foresight of the institution in strategizes its growth and development activities. The institution conducts regular internal audits by the authorized and recognized auditors. All the expenditures

incurred by the college is maintained by the college accounts department and duly submitted to the government from time to time.

Financial Committee

The finance committee of the institute reviews the financial planning periodically. The institute is registered under section 12A of the Income Tax Act. The finance committee acts as an advisory body to Governing Council (GC) on matters of finances connected to the college. The third party qualified auditors prepare the institute level budget for every assessment year and present it to the Governing Council for further proceedings. The annual budget for institute is prepared and proposed at the beginning of financial year, for recurring and non-recurring potential income and expenditures involved for the year.

Financial Audit

Qualified and certified internal auditors appointed do the audit on regular basis. As an act of transparency, the audited financial statements are published on the college website and also sent to the statutory and regulatory bodies.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.velalarengg.ac.in/audit/audit.php

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

0

File Description	Documents
Annual statements of accounts	No File Uploaded
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	No File Uploaded
Any additional information	No File Uploaded

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Utilization of Funds

The college implements academic and non-academic reforms within their self-conceived development programs that focus on quality and relevance, excellence, resource mobilization, greater institutional autonomy with accountability, research and equity. The receipts primarily generated through the fees paid by the students joining in the programmes offered by the college. Any deficit in the receipts would be managed by seeking funds from the parent trust or borrowed from the banks. Another form of receipts is obtained grants received through faculty projects submitted to the funding agencies through Research proposals. These funds are utilized for the research and laboratory development.

Mobilisation of Funds

The institutional budget is prepared by the Principal and the Administrative Manager every year taking into consideration of recurring and nonrecurring expenditures. Accordingly, all the administrative and academic heads are requested to submit the budget required for the subsequent financial year. All the major financial decisions are taken by the Institute's Governing Council. Wherever funds are inadequate, the management borrows loans to meet out the expenditure. Despite of this, the college management never compromised on providing high quality engineering education with an affordable cost to the students as per the directions of the state government.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.velalarengg.ac.in/audit/audit.php

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

IQAC

The primary goal of IQAC is to create a system for taking deliberate, consistent, and catalytic action to improve the institution's academic and administrative performance. The main goal is to promote measures that will improve institutional performance by internalizing a quality culture and institutionalizing best practices.

Post Accreditation Improvements

The following are the achievement/academic improvements wherein the IQAC put its stamp of quality practice:

- The Institute got NAAC accreditation with A+ Grade for the second cycle.
- The BME, CSE, ECE, EEE and IT programmes got NBA accreditation under TIER I for the period from 2022-23 to 2024-25.

Teaching -Learning

Student learning is assessed through Continuous Assessment Tests and an End of Semester Examination administered during their direct and indirect assessment tools. Quality checks are deployed at every stage of student learning to not only measure them but also improve them continuously. In order to maintain the quality standards, every process is thoroughly monitored through a wide-range of testing tools, audits, surveys, and feedback channels through the college quality cell. IQAC played a key role in initiating the necessary measures to meet the desired objectives and to foster effective and efficient educational practices.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://velalarengg.ac.in/naac/meeting%20minutes%202022-2023.php

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

Committees for Quality Improvement

The institution monitors and periodically reviews its teaching-learning processes and methodologies/practices through various operations and expected outcomes. This process was monitored on continual basis by Institutional Quality Assurance (IQAC) through Programme Assessment Committee (PAC) and Department Advisory Board (DAB). In addition, the IQAC also initiates necessary steps to measure the quality of education through regular and continuous follow-up actions.

Identification of Slow Learners and Fast learners

After CAT1, the students are divided into two categories, Category-I (fast learners) and CategoryII (slow learners). For enhancing the academic performance, remedial coaching for the slow learning students and project-based alternate assessment for the fast learning students is being carried-out. This helps the students to upgrade their knowledge levels. At the end of the semester, the students undergo the End semester Examination which results in awarding the SGPA based on their performance in each examination.

Innovative Methodologies in TLP

For continuous assessment and evaluation, activity-based learning is encouraged for all courses. Several activity based learning methods are adopted by the faculty members. Mind mapping, polling in video conference tools, conducting quizzes in various mobile applications, conducting experiments in VLab, and peer instructions are followed as a part of their teaching.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://velalarengg.ac.in/naac/e_contents.php

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as

A. Any 4 or all of the above

ISO Certification)

File Description	Documents
Paste the web link of annual reports of the Institution	https://velalarengg.ac.in/sf/c6/22-23/6.3.3_annual_Report.pdf
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

INSTITUTIONAL VALUES AND BEST PRACTICES**7.1 - Institutional Values and Social Responsibilities****7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year**

Velalar College of Engineering and Technology has committed itself to the standard of gender fairness.

Curricular, Co-Curricular and Extra-Curricular Activities:

The Institution provides platform for women empowerment. Programs and workshops with a specific focus on empowering and promoting participation of female faculty, Staffs and students are organized throughout the year.

Facilities on Campus**Safety and Security:**

- 24 X 7 monitoring by security personnel.
- 120 CCTV Cameras are installed at strategic points in the campus.
- Separate and secured hostel is available for female students within the campus.
- Fire safety equipments are installed in all the laboratories and corridors.
- First-Aid Kit is available in all laboratories and college office.

Counselling:

- Individual counselling is offered through the mentor-mentee system which works in the ratio of 1:20.
- Separate counselling rooms are available in the college campus and in the hostel for male and female students.

Common Room:

- Conference Hall, Seminar Hall, Fitness Centre, Reading Room in Library, Common waiting room in rest rooms and common room in Hostel are available.

Day-Care Centre:

- Day-care centre is functioning for the children of faculty and staff members working in vellalar institutions.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://velalarengg.ac.in/sf/c7/22-23/7.1.1/7.1.1.1 Annual Gender Sensitization APA 22.pdf

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	View File
Any other relevant information	View File

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

Solid Waste Management

- The waste generated within the campus is collected and segregated through dustbins kept at various sources and transported to disposal site.
- Wastes like papers, tin, glass, metals and plastic are

given for recycling to external agencies.

- Food waste is converted into Biogas and Composting pit is constructed to manage the biodegradable waste.
- Sanitary napkins are disposed using the incinerators.

Liquid Waste Management

- Liquid wastes from various points are collected through proper canals, and are disposed to sewage treatment plant without stagnation.
- RO waste water is used for cleaning vessels in the kitchen.

Bio-Medical Waste Management

- Microwave Tissue incinerator, Sharps and Needles destroyer and Autoclave are used to treat the biomedical waste.

E-waste Management

- E-wastes are collected and handed over to external agencies to recycle the materials.
- The awareness programs are organized in the institution with a view to impart the E-waste management techniques.

Waste Recycling System

- The fundamental principle of the institution in waste recycling system is the implementation of 3R's-Reduce, Reuse, and Recycle.

Hazardous chemicals and radioactive waste management

- Standard Operating Procedures are followed for disposal of hazardous chemicals collected from the laboratories.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus	A. Any 4 or all of the above
File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File
7.1.5 - Green campus initiatives include	
7.1.5.1 - The institutional initiatives for greening the campus are as follows: 1.Restricted entry of automobiles 2.Use of bicycles/ Battery-powered vehicles 3.Pedestrian-friendly pathways 4.Ban on use of plastic 5.Landscaping	A. Any 4 or All of the above
File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	View File
7.1.6 - Quality audits on environment and energy undertaken by the institution	
7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following: 1. Green audit 2. Energy audit 3.Environment audit 4. Clean and green campus	A. Any 4 or all of the above

recognitions/awards 5. Beyond the campus environmental promotional activities	
File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	View File
7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.	A. Any 4 or all of the above
File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	View File
Details of the software procured for providing assistance	View File
Any other relevant information	View File
7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).	
Everyone has freedom to express their own opinions and equal	

opportunity to participate in teaching, learning, and social activities. The institute provides a culturally inclusive environment with mutual respect, effective relationships, and clear communication. The institution believes in equality of all cultures and traditions as it is evident from the fact that students belong to different caste and religion are studying in the college without any discrimination. The institute maintains complete transparency right from the enrollment and all admissions are done only on merit without any biases.

The institution has Rotaract Club, Youth Red Cross, Red Ribbon Club, NCC and NSS to inculcate a sense of unity, discipline, and harmony. Anti-Ragging Cell acts as a key factor in maintaining tolerance and harmony among students. Grievance Redressal Committee is constituted to address the grievances among students.

Sports, cultural and technical activities are organized inside the college to promote harmony towards each other. The Institution celebrates regional and national festivals and birth anniversaries of national leaders through cultural programmes and seminar sessions. Commemorative days like International Women's Day, National Youth Day, Teachers' Day, Engineers' Day and Yoga Day are also celebrated in the college.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

A cycle rally was organized by VCET on 31.07.2022 to create awareness about plastic usage and traffic rules to the public. A Food Safety Awareness Walkathon was organized on 06.08.2022 to make awareness about intake of safety food. VCET Rotaract Club organized an event 'Teach What You Know' on 19.08.2022 for reminding the students to teach the elder ones at their home.

VCET has conducted many events to students for the International Day of Peace on 21.09.2022. To create an act of kindness among the students Blood Donation Camp was conducted on 27.09.2022. To inculcate the Electoral morals among the voters, Electoral

Literacy Club of VCET organized a Voter's Awareness Programme and pledge was taken on 31.10.2022. Logamithra.B of BME has secured third place in singing competition conducted owing to National Voter's Day. To insist the value of culture, Pongal Festival was celebrated on 13.01.2023. As a respect to our country and freedom fighters, Republic Day was celebrated on 26.01.2023. Rotary club and P.S.G hospitals jointly organized a General Health Camp on 29.01.2023. As a homage for the soldiers who lose their life during the Pulwama attack RCVCT arranged an event for Indian Black Day on 14.02.2023.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	View File

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

A. All of the above

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	View File
Any other relevant information	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events

and festivals

Velalar College of Engineering and Technology regularly celebrates National and International Commemorative days, events and festivals. The following are the events conducted regularly:

- Kamarajar Birthday
- Independence Day
- Teachers' Day
- Engineers' Day
- Onam Celebrations
- International Literacy Day
- World Ozone Day
- World Heart Day
- Youth Awakening Day
- Deepavali Celebrations
- National Unity Day
- National Youth Day
- Constitution Day
- Pongal Celebrations
- Republic Day
- Women's Day

In the academic year 2022-2023, the Institute celebrated the above events and festivals through various clubs with wide participation from the students and faculty members.

Competitions and rallies were held during these events to create awareness among the students and public. For the benefit of faculty members, awards were presented on Teachers' Day for special performance and research-oriented initiatives. Various medical camps like Eye Camp, General Health Check-up Camp, Diabetes Camp, etc. were organized to ensure the fitness of the students, faculty members and scavengers. The institute provides a societal friendly environment by encouraging the students to visit orphanages and help the needful people during the national memorial days. To ensure the cultural heritage, festivals like Pongal, Onam, Deepavali, etc. were celebrated inside the college premises.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	View File
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

[https://velalarengg.ac.in/naac/best_practices\(AQAR%202022-2023\).php](https://velalarengg.ac.in/naac/best_practices(AQAR%202022-2023).php)

BEST PRACTICE- I

NPTEL LOCAL CHAPTER

Developing strong attitude towards learning can help students and faculty members to overcome their potential challenges put on by online learning. It is involved in connecting learners on highly developed topics, and certificate exams with credit transfer facility. Learners enroll their courses outside their branch of study to enhance extra knowledge and career prospects. During 2022-2023, VCET has obtained 1253 certificates. At times, students choose advanced courses which are too tough to proceed without additional guidance. Certificates with 'Gold' and 'Silver' tags are a remarkable step towards the institution's commitment to impart essential knowledge through quality education.

Website Link: [https://velalarengg.ac.in/naac/best_practice-I\(AQAR%202022-2023\).php](https://velalarengg.ac.in/naac/best_practice-I(AQAR%202022-2023).php)

BEST PRACTICE - II

MENTOR-MENTEE

Well structured mentoring system is the need of the day in VCET, especially when it comes to dealing with teenagers. The

rationale of mentoring system in VCET is to leverage the copious wisdom of the faculty that shows the best way to accelerate the development of student community. In addition, creditable achievements in academics, co-curricular and extracurricular activities from the students' side, the mentoring system at VCET has proved to succumb benefits for the mentors as well who always elicit energy, confidence and right attitude.

Website Link: [https://velalarengg.ac.in/naac/best_practice-II\(AQAR%202022-2023\).php](https://velalarengg.ac.in/naac/best_practice-II(AQAR%202022-2023).php)

File Description	Documents
Best practices in the Institutional website	https://velalarengg.ac.in/naac/best_practices(AQAR%202022-2023).php
Any other relevant information	https://velalarengg.ac.in/sf/c7/22-23/7.2.1/7.2.1 Additional 22%28WebsiteLink%29.pdf

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

EMPOWERMENT THROUGH EDUCATION FOR BETTER PLACEMENT

Our institution provides quality and affordable higher education to the rural community students with a clear focus on Academics, Placement and Research and Development continuously.

During the academic year 2022-2023, VCET offers 9 UG programmes and 5 PG programmes. Through NPTEL Local Chapter, 1187 students and 66 faculty members were awarded with certificates. VCET has signed Memorandum of Understanding (MoUs) with more than 85 industries. Research, Innovation and Placement are the key success for the development of Educational Institutions. Out of 569 students 528 were placed and 622 of our students got offers in reputed multinational companies. 30 patents were published and 2 copyrights were registered, 5 consultancy activities were carried out, 5 programmes were funded by various funding agencies, 101 proposals were sent by the faculty members to various funding agencies and 69 papers were published in International Journals.

Students from Bio-Medical Engineering won one lakh cash prize in Smart India Hackathon held at Amal Jyothi College of Engineering, Kanjirapally, Kerala during August 25th - 29th, 2022.

1641 students got benefited by scholarships to the tune of Rs. 3.38 crores offered by the Institution. Various Clubs like NSS, YRC, RRC, NCC, Rotaract Club, Women Empowerment Cell, English Literary Association and Electoral Literacy Club are functioning as a part of societal awareness.

File Description	Documents
Appropriate link in the institutional website	https://velalarengg.ac.in/naac/ins_distinct2022-23.php
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

1. To apply and secure Top 300 Ranking band in NIRF Innovation Ranking
2. Encourage Faculty members and Students to participate in the International level events.
3. Encourage Faculty members to apply for research grants
4. Ensuring 40% of students to be placed in core companies.
5. To identify and work on a Major Thrust Area by the team of Faculty members in all the departments
6. Deputing faculty members to the nearby Industries to improve Consultancy activities.
7. To establish at least FIVE Industries to start their development centres in the campus and to help our students by offering placements, training and Internships.
8. To establish laboratories in emerging Technologies supported by Industries.